Serial No.: 09/458,875 Inventor: David J. Keller

In the Claims

Please cancel claims 20 and 24 and amend the following claims to the form indicated below.

1. (amended) A method used during the formation of a semiconductor device comprising the following steps:

forming a polysilicon layer;

etching said polysilicon layer with an etch in an environment comprising a pressure of from about 42 mTorr to about 78 mTorr, an upper power of from about 245 watts to about 455 watts, a lower power of from about 49 watts to about 91 watts, a halogen-containing gas flow rate of from about 35 secm to about 65 secm, and an oxygen-containing gas having an oxygen flow rate of from about 1.9 secm to about 4.68 secm.

19. (amended) A method used during the formation of a semiconductor device comprising the following steps:

providing a semiconductor substrate assembly having at least first and second features therein in spaced relation to each other, wherein said first and second features define an opening therebetween;

providing a blanket polysilicon layer over said semiconductor substrate assembly and within said opening;

forming a patterned photoresist layer over said blanket polysilicon layer;

etching a portion of said blanket polysilicon layer within said opening with a first etch comprising a halogen-containing gas flow rate of from about 35 sccm to about 65 sccm, and an oxygen-containing gas having an oxygen flow rate of from about 1.9 sccm to about 2.7 sccm;

subsequent to said first etch, etching said portion of said polysilicon layer within said opening with a second etch comprising a halogen-containing gas flow rate of from about 35 secm to about 65 secm and an oxygen-containing gas having an oxygen flow rate of from about 3.6 secm to about 4.7 secm.

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23. (amended) A method used during the formation of a semiconductor device comprising the following steps:

forming a polysilicon layer;

etching said polysilicon layer, wherein said etch of said polysilicon results in the formation of polysilicon stringers;

etching said polysilicon stringers with an etch comprising a halogen-containing gas having an oxygen flow rate of between about 35 sccm to about 65 sccm and an oxygen-containing gas at a flow rate of from about 1.9 sccm to about 4.7 sccm, an upper power of from about 315 waits to about 388 watts, and a lower power of from about 63 waits to about 77 watts.

- 25. (amended) The method of claim 23 wherein said step of etching said polysilicon stringers further comprises a pressure of from about 54 mTorr to about 66 mTorr, a halogen-containing gas flow rate of from about 45 sccm to about 55 sccm, and an oxygen-containing gas having an oxygen flow rate of from about 2.4 sccm to about 4.0 sccm.
- 26. (amended) The method of claim 23 wherein said etch of said stringers, comprises etching said stringers with an etch consisting essentially of a halogen-containing gas and an oxygen-containing gas.